

that have adequate natural ventilation need not have mechanical ventilation.

(b) The bulkhead between a hold containing a Class 4.3 material and incompatible materials must have cable and conduit penetrations sealed against the passage of gas and vapor.

§ 148.140 Stowage and segregation for materials of Class 5.1.

(a) Class 5.1 materials listed in Table 148.10 of this part must—

(1) Be kept as cool and dry as practical before loading;

(2) Be stowed away from all sources of heat or ignition; and

(3) Be stowed separate from foodstuffs and all readily combustible materials.

(b) Special care must be taken to ensure that holds containing Class 5.1 materials are clean and, whenever practical, only noncombustible securing and protecting materials are used.

(c) Class 5.1 materials must be prevented from entering bilges or other cargo holds.

§ 148.145 Stowage and segregation for materials of Class 7.

(a) Class 7 material listed in Table 148.10 of this part must be stowed—

(1) Separate from foodstuffs; and

(2) In a hold or barge closed or covered to prevent dispersal of the material during transportation.

(b) [Reserved]

§ 148.150 Stowage and segregation for materials of Class 9.

(a) A bulk solid cargo of Class 9 material (miscellaneous hazardous material) listed in Table 148.10 of this part must be stowed and segregated as required by this section.

(b) Ammonium nitrate fertilizer of Class 9 must be segregated as required for Class 5.1 materials in §§148.120 and 148.140 of this part and must be stowed—

(1) Separated by a complete hold or compartment from readily combustible materials, chlorates, hypochlorites, nitrites, permanganates, and fibrous materials (*e.g.*, cotton, jute, sisal, *etc.*);

(2) Clear of all sources of heat, including insulated piping; and

(3) Out of direct contact with metal engine-room boundaries.

(c) Castor beans must be stowed separate from foodstuffs and Class 5.1 materials.

(d) Fish meal must be stowed and segregated as required for Class 4.2 materials in §§148.120 and 148.130 of this part. In addition, its temperature at loading must not exceed 35 °C (95 °F), or 5 °C (9 °F) above ambient temperature, whichever is higher.

(e) Sulfur must be stowed and segregated as required under §§148.120 and 148.125 of this part for a material of Class 4.1.

§ 148.155 Stowage and segregation for potentially dangerous materials.

(a) A PDM must be stowed and segregated according to the requirements of this section and Table 148.155 of this section.

(b) When transporting coal—

(1) Coal must be stowed separate from materials of Class/division 1.4 and Classes 2, 3, 4, and 5 in packaged form; and separated from bulk solid materials of Classes 4 and 5.1;

(2) No material of Class 5.1, in either packaged or bulk solid form, may be stowed above or below a cargo of coal; and

(3) Coal must be separated longitudinally by an intervening complete cargo compartment or hold from materials of Class 1 other than Class/division 1.4.

(c) When transporting direct reduced iron (DRI)—

(1) DRI lumps, pellets, or cold-molded briquettes, and DRI hot-molded briquettes, must be separated from materials of Class/division 1.4, Classes 2, 3, 4, 5, Class 8 acids in packaged form, and bulk solid materials of Classes 4 and 5.1; and

(2) No material of Class 1, other than Class/division 1.4, may be transported on the same vessel with DRI.

(d) Petroleum coke, calcined or uncalcined, must be—

(1) Separated longitudinally by an intervening complete cargo compartment or hold from materials of Class/divisions 1.1 and 1.5; and

(2) Separated by a complete cargo compartment or hold from all hazardous materials and other potentially dangerous materials in packaged and bulk solid form.

§ 148.200

46 CFR Ch. I (10–1–14 Edition)

TABLE 148.155—STOWAGE AND SEGREGATION REQUIREMENTS FOR POTENTIALLY DANGEROUS MATERIAL

Potentially dangerous material	Segregate as for class listed ¹	“Separate from” food-stuffs	Load only under dry weather conditions	Keep dry	Mechanical ventilation required	“Separate from” material listed	Special provisions
Aluminum Smelting By-products or Aluminum Re-melting By-products.	4.3	X	X	X	X	Class 8 liquids	
Brown Coal Briquettes.	.....	.....	.....	.....	.....	See paragraph (b) of this section.	See paragraph (b) of this section.
Charcoal	4.1	.....	.....	X	.....	Oily materials	
Coal .....	.....	.....	.....	.....	.....	See paragraph (b) of this section.	See paragraph (b) of this section.
Direct reduced iron (A).	.....	.....	.....	.....	.....	See paragraph (c) of this section.	See paragraph (c) of this section.
Direct reduced iron (B).	.....	.....	.....	.....	.....	See paragraph (c) of this section.	See paragraph (c) of this section.
Ferrophosphorus.	4.3	X	X	X	X	Class 8 liquids	
Ferrollicon	4.3	X	X	X	X	Class 8 liquids	
Fluorospar .....	.....	X	.....	.....	.....	Class 8 liquids	
Lime, Unslaked	.....	.....	.....	X	.....	All packaged and bulk solid hazardous materials.	
Linted Cotton Seed.	.....	.....	.....	X	.....	
Magnesia, Unslaked.	.....	.....	.....	.....	.....	All packaged and bulk solid hazardous materials.	
Metal Sulfide Concentrates.	4.2	X	.....	.....	.....	Class 8 liquids	
Petroleum Coke	.....	X	.....	.....	.....		See section 148.155(d).
Pitch Prill	4.1	.....	.....	.....	.....
Pyrites, Calcined.	.....	X	X	X	X		
Sawdust	4.1	.....	.....	X	.....	All Class 5.1 and 8 liquids.	
Silicomanganese.	4.3	X	X	X	X	Class 8 liquids	
Tankage	4.2	X	X	.....	.....
Vanadium	6.1	X	.....	.....	.....
Wood chips	4.1	.....	.....	.....	.....
Wood pellets	4.1	.....	.....	.....	.....
Wood pulp pellets.	4.1	.....	.....	.....	.....

¹ See Tables 148.120A and B.

Subpart E—Special Requirements for Certain Materials

are applicable to all materials listed in Table 148.10 of this part.

§ 148.200 Purpose.

This subpart prescribes special requirements for specific materials. These requirements are in addition to the minimum transportation requirements in Subpart C of this part that